

February 2018

CSO SHEET 1

		Daily Com	WPCF RAINFALL	CSO INFLUENT FLOW	CSO PUMPBACK TO WWTF	CSO BYPASS TO RIVER	CSO TREATED TO RIVER	CSO EVENT DURATION	South Street CSO #9 Flow	CSO #9 FLOW DURATION	CSO #9 % SEC TREATED
			INCHES	MGD	MGD	MGD	MGD	Hours	MGD	Hours	%
Feb	1 Thu		0.10	0.000	0.000	0.000	0.00	0.0	0.000	0.00	
	2 Fri		0.00	0.000	0.000	0.000	0.00	0.0	0.000	0.00	
	3 Sat		0.00	0.000	0.000	0.000	0.00	0.0	0.000	0.00	
	4 Sun		0.94	3.700	0.000	0.000	2.90	2.8	3.660	6.50	
	5 Mon		0.00	4.800	0.482	0.000	4.00	0.5	4.350	0.80	
	6 Tue		0.00	0.000	0.433	0.000	0.00	0.0	0.000	0.00	
	7 Wed		0.54	0.000	0.053	0.000	0.00	0.0	0.000	0.00	
	8 Thu		0.00	0.000	0.000	0.000	0.00	0.0	0.000	0.00	
	9 Fri		0.00	0.000	0.000	0.000	0.00	0.0	0.000	0.00	
	10 Sat		0.57	2.100	0.000	0.000	1.30	1.2	2.060	2.50	
	11 Sun		0.94	13.018	0.000	0.000	12.22	7.3	12.690	8.50	
	12 Mon		0.00	0.000	0.240	0.000	0.00	0.0	0.000	0.00	
	13 Tue		0.00	0.000	0.479	0.000	0.00	0.0	0.000	0.00	
	14 Wed		0.01	0.000	0.400	0.000	0.00	0.0	0.000	0.00	
	15 Thu		0.06	0.000	0.000	0.000	0.00	0.0	0.000	0.00	
	16 Fri		0.00	0.000	0.000	0.000	0.00	0.0	0.000	0.00	
	17 Sat		0.25	0.000	0.000	0.000	0.00	0.0	0.000	0.00	
	18 Sun		0.00	0.000	0.000	0.000	0.00	0.0	0.000	0.00	
	19 Mon		0.49	0.000	0.000	0.000	0.00	0.0	0.000	0.00	
	20 Tue		0.01	0.000	0.000	0.000	0.00	0.0	0.000	0.00	
	21 Wed		0.00	0.000	0.089	0.000	0.00	0.0	0.000	0.00	
	22 Thu		0.10	0.000	0.000	0.000	0.00	0.0	0.000	0.00	
	23 Fri		0.52	0.000	0.000	0.000	0.00	0.0	0.120	0.90	
	24 Sat		0.25	0.000	0.076	0.000	0.00	0.0	0.000	0.00	
	25 Sun		0.50	0.565	0.000	0.000	0.00	0.0	0.550	1.80	
	26 Mon		0.00	0.000	0.400	0.000	0.00	0.0	0.000	0.00	
	27 Tue		0.00	0.000	0.305	0.000	0.00	0.0	0.000	0.00	
	28 Wed		0.01	0.000	0.018	0.000	0.00	0.0	0.000	0.00	12.70
MINIMUM			0.00	0.000	0.000	0.000	0.00	0.0	0.000	0.00	12.70
MAXIMUM			0.94	13.018	0.482	0.000	12.22	7.3	12.690	8.50	12.70
AVERAGE			0.19	0.864	0.106	0.000	0.73	0.4	0.837	0.75	12.70
SUM			5.29	24.183	2.975	0.000	20.42	11.8	23.430	21.00	12.70
GEOMEAN			0.38	1.222	0.513	1.000	1.20	1.1	1.126	1.20	12.70

Holyoke MA - Berkshire Street CSO Treatment Facility, CSO #09

Sample Results of Treated Flow to River (Flow "A")

Feb-18

Monthly Samples:	e-Coli	CL2 Residual In CSO Facility	TRC: CL2 Residual After Dechlor		PH	
	One Event /month	One Event /month	One Event /month	One Grab/M		
Date of	Hourly samples	One every 4 hours	One every 4 hours			
Sample	(colonies/100ml)	(mg/l)	(mg/l)			
2/4/2018						
9:10pm to 10:10pm		4.10mg/l	.12mg/l		7.80	
10:10pm to 11:10pm		4.40mg/l	.22mg/l		7.50	
11:10pm to 12:10am		3.00mg/l	.19mg/l		7.80	
2/10/2018						
9:25pm to 10:25pm		3.90mg/l	.09mg/l		7.60	
2/11/2018						
10:30am to 11:30am	156/100ml	4.70mg/l	.14mg/l		7.90	
11:30am to 12:30pm	0/100ml	2.30mg/l	.07mg/l		7.90	
12:30pm to 1:30pm	0/100ml	1.70mg/l	.14mg/l		7.90	
1:30pm to 2:30pm	404/100ml	2.90mg/l	.16mg/l		7.80	
2:30pm to 3:30pm		2.90mg/l	.20mg/l		7.90	
3:30pm to 4:30pm		1.10mg/l	.11mg/l		7.80	
4:30pm to 5:30pm		1.50mg/l	.15mg/l		7.90	
				min	7.50	
				max	7.90	
Monthly Average	140/100ml	2.69mg/l	.14mg/l			
Geometric Mean (E-Coli)	16/100ml	LC 50 Toxicity Composite				
Samples/	TSS	Ammonia	Nitrate	Nitrite	TKN	LC 50
6 Months	Solids (TSS)	Nitrogen (as N)	NO3 (as N)	NO2 (as N)	(as N)	Toxicity
Date of	Composite	Composite	Composite	Composite	Composite	Composite
Sample-	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	
CSO 9						